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COMPUTER CENTER

USSR

MICROFILMED

Subordination:

Siberian Department, USSR
Academy of Sciences

Address:

Novosibirsk, 90, Prospekt
Nauki 6

Director:

Guriy Ivanovich Marchuk

Leading Personalities and Their Specialties:

Andrey P. Yershov (software)
Vadim Ye. Kotov (software)
Andrey S. Alekseyev (modeling)

Organization and Research:

The Computer Center, founded in 1957, was part of the Institute of Mathematics in Novosibirsk until 1964, when it became an independent facility. The center employs over 600 people in two sections. One section provides computing facilities for the Siberian Department of the Academy of Sciences and for industry in Novosibirsk; the other has five departments concerned with programing methodology and the development of large data bases for such applications as oceanographic and atmospheric modeling; the five departments are titled Continuous Media, Informatics, Mathematical Physics, Mathematical Problems of Geology and Geophysics, and Physics of the Atmosphere and Oceans.

Guriy Marchuk, director of the center and chairman of the Siberian Department of the USSR Academy of Sciences, has been particularly interested in developing long-range numerical weather forecasts. The center is now one of the main facilities for atmospheric research in the USSR and provides regular three-month weather predictions, primarily to industrial users. In recent years it has been participating in several US-USSR cooperative programs in such areas as computer software, ocean studies, and earthquake prediction. Andrey Alekseyev, one of the center's three deputy directors, has been using the facility's computers to create mathematical models of the earth's upper mantle for seismological studies.

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Since the early 1970s, the center's researchers have been working on a major software program known as the BETA project--an experimental compiler writing program designed to develop a capability for the machine translation of one computer language to another. In the past two years Marchuk has also been making a concerted effort to have the Computer Center selected as the principal site for the development and engineering of the USSR's new microprocessor technology.

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